

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A computer-implemented method for providing prediction results to an application system during an interactive session with a user, the method comprising:  
receiving a first input value set ~~of input values~~ from the application system;  
using a data mining model along with the first input value set ~~of input values~~ to compute a first prediction result;  
saving state information generated from the computation of the first prediction result;  
receiving a second input value set ~~of input values~~ from the application system; and  
using the data mining model along with the state information and the second input value set ~~of input values~~ to compute a second prediction result[.]; and  
providing the second prediction result to the application system.
2. (Original) The computer-implemented method of claim 1, wherein the method comprises:  
sending the first prediction result back to the application system; and  
sending the second prediction result back to the application system.
3. (Currently Amended) The computer-implemented method of claim 1, wherein the second input value set ~~of input values~~ includes both the first input value set ~~of input values~~ and an additional set of input values, and wherein the method comprises using the data mining model along with the state information and the additional set of input values to compute the second prediction result.

4. (Currently Amended) The computer-implemented method of claim 1, wherein the method comprises receiving the first input value set ~~of input values~~ from the application system before the second input value set ~~is of input values~~ are available.

5. (Currently Amended) The computer-implemented method of claim 1, wherein the first input value set ~~of input values~~ includes at least two input values.

6. (Currently Amended) The computer-implemented method of claim 1, wherein the second input value set ~~of input values~~ includes at least two input values.

7. (Currently Amended) The computer-implemented method of claim 1, wherein the method comprises:

receiving the first input value set ~~of input values~~ from the application system during an interactive session with a customer; and

receiving the second input value set ~~of input values~~ from the application system during the interactive session with the customer.

8. (Original) The computer-implemented method of claim 1, wherein the data mining model is a decision tree model.

9. (Original) The computer-implemented method of claim 8, wherein the state information includes information about a particular node in the decision tree model.

10. (Original) The computer-implemented method of claim 1, wherein the data mining model is a Naive Bayes model.

11. (Original) The computer-implemented method of claim 10, wherein the state information includes intermediate probability information.

12. (Original) The computer-implemented method of claim 1, wherein the first and second prediction results each specify a probability of customer churn.

13. (Currently Amended) A computer system for providing prediction results to an application system during an interactive session with a user, wherein the computer system is programmed to:

- receive a first set of input values from the application system;
- use a data mining model along with the first set of input values to compute a first prediction result;
- save state information generated from the computation of the first prediction result;
- receive a second set of input values from the application system; ~~and~~
- use the data mining model along with the state information and the second set of input values to compute a second prediction result[.]; and
- provide the second prediction result to the application system.

14. (Currently Amended) A computer system, comprising:

a data mining model; and

a prediction engine that is operable to:

- receive a first input value from an application system;
- use the data mining model along with the first input value to compute a first prediction result;
- save state information generated from the computation of the first prediction result;
- receive a second input value from the application system; ~~and~~
- use the data mining model, the state information, the first input value, and the second input value to compute a second prediction result[.]; and
- provide the second prediction result to the application system.

15. (Original) The computer system of claim 14, wherein the prediction engine is operable to:

send the first prediction result back to the application system; and  
send the second prediction result back to the application system.

16. (Original) The computer system of claim 14, wherein the prediction engine is operable to receive the first input value from the application system before the second input value is available.

17. (Original) The computer system of claim 14, wherein the data mining model is a decision tree model.

18. (Original) The computer system of claim 17, wherein the state information includes information about a particular node in the decision tree model.

19. (Original) The computer system of claim 14, wherein the data mining model is a Naive Bayes model.

20. (Original) The computer system of claim 19, wherein the state information includes intermediate probability information.

21. (Currently Amended) A computer-readable medium having computer-executable instructions contained therein for performing a method, the method comprising:  
receiving a first set of input values from ~~the~~ an application system;  
using a data mining model along with the first set of input values to compute a first prediction result;  
saving state information generated from the computation of the first prediction result;  
receiving a second set of input values from the application system; ~~and~~  
using the data mining model along with the state information and the second set of input values to compute a second prediction result[.]; and  
providing the second prediction result to the application system.